



## Himark BioGas now digests municipal organic waste

By Himark BioGas | December 13, 2013

An anaerobic digestion (AD) facility at Growing Power Hairy Hill L.P. in Canada is utilizing Himark BioGas International's patented IMUS technology to digest 200 tons per day or 73,000 tons per year of municipal solid waste and organics from residences and businesses in the metropolitan Edmonton region (suburban communities outside of Edmonton, Alberta, Canada such as Leduc, Beaumont, Devon and Sherwood Park) for conversion into renewable energy.

The plant, commissioned in 2005, initially processed extremely contaminated feedstock including sand-laden cattle manure and slaughterhouse waste, as well as ethanol stillage. More recently, the opportunity became available to handle a majority of the organics from the metropolitan Edmonton region and surrounding areas, MSW and SSO which the plant can easily handle.



Himark BioGas

"Today the organic material that GPHH is handling is being diverted from landfills around Alberta. These include municipal Source-Separated Organics (SSO), food processing waste, and sewer sludge. These materials are converted to energy via accelerated natural breakdown processes in one of the largest AD plants in North America, thanks to technology and know-how from Himark BioGas," said Eugene N. Choimah, general manager of GPHH. Choimah added, "The process produces methane - a completely renewable substitute for natural gas - and that methane not only drives generators connected to Alberta's power grid, it also feeds boilers in an adjacent industrial plant. In a very real way, citizens generating waste are supplying themselves with green electricity for their homes and 'ultra-low carbon' fuel for their cars!"

Shane Chapko, CEO of Himark BioGas, commented, "The diversion of waste to GPHH is adding decades to the lifespan of existing landfills in the metro Edmonton area. Fifty percent to 70 percent diversion makes these landfills more profitable operations - and at the same time better neighbors - by reducing leachate and odor production and making materials handling easier. Furthermore, each ton of organic waste diverted from landfill reduces Alberta's Greenhouse Gas Emissions footprint by just over one ton of CO<sub>2</sub>(eq), meaning that the 73,000 tons per year of organic waste can take a significant bite out of GHG emissions. Turning a waste product into clean, renewable energy more than doubles the environmental benefits."

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